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# NPIC DATA SYSTEM DATA AND CONTROL SEGMENT ACQUISITION PHASE

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### REVISION

31 March 1982

# NPIC DATA SYSTEM DATA AND CONTROL SEGMENT ACQUISITION PHASE

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#### APPENDIX C4

#### OBS DICTIONARY

The OBS Dictionary is directly related to the D/C Segment project organization structure. The project manager has all technical functions, subcontractor management and the project control office reporting directly to him. Three other staff functions have project responsibilities and have committed their support and services, these are Contracts, Security and Product Assurance. Figure 1 shows the hierarchical relationship between elements of the D/C Segment project organization. The dictionary relates the project efforts as defined by the work breakdown structure and the statement of work to the organization. These efforts are described in terms such as design, provide, prepare, monitor, develop, test, etc. The dictionary uses the hierarchical reference number and organization function as the key item identifier. The tasks associated with these functions are then listed with their work breakdown structure number and/or statement of work number as appropriate.

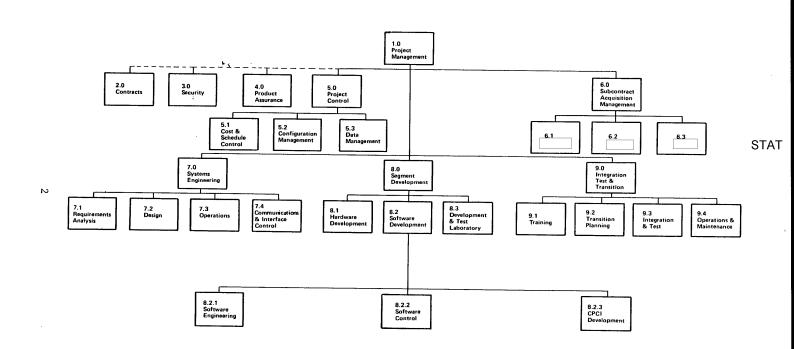


Figure 1. D/C Segment Project Hierarchical Structure

## OBS DICTIONARY

OBS REF	ORGANIZATIONAL ELEMENT	WBS #	SOW #	ASOCIATED TASK
1.0	PROJECT MANAGEMENT	241000	4.1.1	o PROVIDE PROJECT ORGANIZATION AND MANAGEMENT
2.0	CONTRACTS			o CONTRACTURAL ADMINISTRATION AND SUPPORT
3.0	SECURITY	341500 541500	4.1.5	o PREPARE SECURITY PLAN AND PROCEDURES o IMPLEMENT SECURITY PROCEDURES
4.0	PRODUCT ASSURANCE	341300 541300	4.1.3	<ul> <li>PROVIDE QUALITY ASSURANCE PLAN</li> <li>IMPLEMENT SOFTWARE QUALITY         ASSURANCE</li> <li>IMPLEMENT HARDWARE QUALITY         ASSURANCE</li> <li>MONITOR SUBCONTRACTOR QUALITY         ASSURANCE</li> <li>PROVIDE QUALITY ASSURANCE AUDIT         REPORTS</li> </ul>
5.0 5.1	PROJECT CONTROL COST & SCHEDULE CONTROL	341200 541200	4.1.2	o MONITOR, CONTROL AND REPORT SCHEDULE STATUS o MONITOR, CONTROL AND REPORT COST
5.2	CONFIGURATION MANAGEMENT	341400 541400	4.1.4	O PREPARE AND MAINTAIN CM PLAN AND PROCEDURES O PREPARE ENGINEERING CHANGE NOTICES/REQUESTS AND OTHER CM RELATED DOCUMENTS O PERFORM CM AUDITS O PROVIDE MASTER PRODUCT & DOCUMENT CONTROL O PREPARE/MAINTAIN SOFTWARE VERSION DESCRIPTION DOCUMENT O ADMINISTER CONTRACTOR CCB O PROVIDE CHANGE STATUS ACCOUNTING

OBS REF	ORGANIZATIONAL ELEMENT	WBS #	SOW #	ASOCIATED TASK
5.3	ADMINISTRATIVE DATA MANAGEMENT	341800 541800	4.1.8	<ul> <li>PROVIDE PUBLICATION, MAINTENANCE AND CONTROL OF ALL PROJECT DOCUMENTATION</li> <li>PREPARE AND ADMINISTER DOCUMENT MANAGEMENT PLAN</li> </ul>
6.0	SUBCONTRACT ACQUISITION MANAGEMENT	341700	4.1.7	
6.1		541700		o PROVIDE MANAGEMENT, CONTROL AND STAT
6.2				VISIBILITY TO COST SCHEDULE OF STAT  • PROVIDE MANAGEMENT, CONTROL AND
6.3				VISIBILITY TO COST SCHEDULE OF PROVIDE MANAGEMENT, CONTROL AND VISIBILITY TO COST SCHEDULE OF
7.0	SYSTEMS ENGINEERING	342000 342100 542100 442800		<ul> <li>SYSTEMS ENGINEERING MANAGEMENT</li> <li>PROVIDE TECHNICAL MANAGEMENT OF PROJECT</li> <li>PROVIDE/ENFORCE S/W, OPERATIONS, H/W INTERFACE STANDARDS</li> <li>PREPARE SEGMENT DEVELOPMENT PLAN</li> <li>PROVIDE SEGMENT TECHNICAL REVIEWS</li> </ul>
				AND ACTION ITEM FOLLOW-UP (PDR, CDR, SRR, ETC.)
7.1	REQUIREMENTS ANALYSIS	342200 542200 542201 542202 542203 542204 542205 542206	4.2.2	<ul> <li>PROVIDE REQUIREMENTS ANALYSIS AND TRACEABILITY</li> <li>PROVIDE PERFORMANCE ANALYSIS</li> <li>PROVIDE RMA ANALYSIS</li> <li>PREPARE SEGMENT DESIGN ANALYSIS REPORT</li> <li>ACCOMPLISH TRADE STUDIES</li> <li>PROVIDE ENGINEERING SPECIALTIES</li> <li>PROVIDE SUPPORT TO INTERSEGMENT</li> </ul>
		¢		INTERFACE DEFINITION AND REQUIRE- MENTS DETERMINATION
		542207 542700	4.2.7	<ul> <li>PREPARE ENGINEERING TECHNICAL NOTES</li> <li>EVALUATE PROPOSED CHANGES</li> <li>PROVIDE CHANGE REQUEST IMPACT ANALYSIS</li> <li>PROVIDE INTERFACE CONTROL</li> </ul>

OBS REF	ORGANIZATIONAL ELEMENT	WBS #	SOW #	ASOCIATED TASK
7.2	DESIGN	342400 542400 542401 542402		<ul> <li>PREPARE SEGMENT DESIGN SPECIFICATION</li> <li>PROVIDE DATA BASE SPECIFICATIONS</li> <li>PROVIDE ENGINEERING SPECIALTIES DESIGN</li> </ul>
7.3	OPERATIONS ENGINEERING & DEVELOPMENT	542403 342300	4.2.3	o PROVIDE ILS DESIGN
		542300		o DEVELOP SEGMENT OPERATIONS CON- CEPTS, PROCEDURES AND SPECIFICATIONS
		542301		o DEVELOP USER MANUALS
		542302		o DEVELOPMENT SEGMENT/SYSTEMS OPERATIONS MANUALS
		542303		<ul> <li>CONDUCT PRODUCTIVITY ENHANCEMENT STUDIES</li> </ul>
		542304		o PREPARE O&M PLAN
		542305		<ul> <li>PREPARE MAINTENANCE AND LOGISTICS PLAN</li> </ul>
		342600	4.2.6	o TEST SUPPORT
		542600		o PREPARE SEGMENT VERIFICATION PLAN
		542601		o PREPARE SEGMENT TEST PLAN AND PROCEDURES
		542602		o SUPPORT THE EXECUTION AND EVALUATION OF TESTS
7.4	COMMUNICATIONS AND INTERFACE CONTROL	342500	4.2.5	o TRANSITION AND INTEGRATION PLANNING AND SUPPORT
		542500		<ul> <li>DEVELOP SEGMENT TRANSITION AND INTEGRATION PLAN</li> </ul>
		542501		<ul> <li>SUPPORT FACILITY PLANNING, INSTAL- LATION AND CHECKOUT</li> </ul>
		542502		<ul> <li>SUPPORT TRANSITION OF NEW CAPABILITY INTO THE OPERATIONAL ENVIRONMENT</li> <li>PROVIDE INTERSEGMENT INTERFACE DEFINITION</li> <li>ASSURE CONTROLLED INTERFACE DESIGN</li> <li>PROVIDE FOR CONTROLLED INTRASEGMENT STANDARDS AND INTERFACES</li> </ul>
8.0	SEGMENT DEVELOPMENT			
8.1	HARDWARE DEVELOPMENT	246000 346100 546100 546101	4.6 4.6.1	<ul> <li>HARDWARE DEVELOPMENT MANAGEMENT</li> <li>MANAGE ALL HARDWARE DEVELOPMENT</li> <li>SET AND MAINTAIN HARDWARE DESIGN, FABRICATION, TEST PRACTICES, STANDARDS AND CONVENTIONS</li> </ul>

OBS				
REF	ORGANIZATIONAL ELEMENT	WBS #	SOW #	ASOCIATED TASK
		546102		o PROVIDE INPUTS TO THE SEGMENT DEVELOPMENT PLAN
		346200	4.6.2	
		546210	4.6.2.1	
				REQUIREMENTS ANALYSIS AND ALLOCATION
		546211		o PREPARE CI SPECIFICATIONS AND CON- DUCT INTERNAL DESIGN REVIEWS
		546212		o ACCOMPLSH PRELIMINARY DESIGN OF COMMERCIAL PRODUCT MODIFICATIONS
		446220	4.6.2.2	
		546220		o ACCOMPLISH DETAILED DESIGN OF CI
		546221		o PREPARE BUILD-TO COMPONENT SPECIFICATIONS
		546222		o CONDUCT INTERNAL DESIGN REVIEWS
		546223		o ACCOMPLISH CRITICAL DESIGN OF COM-
				MERCIAL PRODUCT MODIFICATION
		446230	4.6.2.3	o DEVELOPMENT
		546230		<ul> <li>ACCOMPLISH FABRICATION OF ALL MANUFACTURED HARDWARE</li> </ul>
		546231	•	<ul> <li>ACCOMPLISH MODIFICATION OF ALL COMMERCIAL PRODUCTS</li> </ul>
		546232		<ul> <li>PREPARE AS-BUILT COMPONENT SPECIFICATIONS</li> </ul>
		446240	4.6.2.4	o TEST
		546240		o PREPARE HARDWARE TEST PROCEDURES
		546241		• TEST HARDWARE AT COMPONENT AND CI LEVELS
	•	546242		<ul> <li>SUPPORT AND TEST VERIFICATION</li> </ul>
		446250	4.6.2.5	o DOCUMENTATION
		546250		o PREPARE EQUIPMENT OPERATION AND
				MAINTENANCE MANUALS
		546251		o PREPARE INPUTS TO SEGMENT/SYSTEM
		F//0F0		OPERATIONS AND USER MANUALS
8.2	SOFTWARE DEVELOPMENT	546252		o PREPARE INPUTS TO TRAINING MANUALS
0.2	SOFTWARE DEVELOPMENT	243000	4.3	·
	,	343100	4.3.1	o SOFTWARE DEVELOPMENT MANAGEMENT
		543100		o MANAGE ALL SOFTWARE DEVELOPMENT ACTIVITIES
		543101		o PROVIDE/ENFORCE PROGRAM DESIGN, CODING AND TEST PRACTICES, STANDARDS AND CONVENTIONS
8.2.1	SOFTWARE ENGINEERING	543102		o SOFTWARE ENGINEERING/ARCHITECTURE
8.2.2	SOFTWARE CONTROL	543103		o SOFTWARE CONTROL
		543104		o PROVIDE INPUT TO SEGMENT DEVELOP-
		543105		MENT PLAN
		242103		o IMPLEMENT DATA BASE

OBS REF	ORGANIZATIONAL ELEMENT	WBS #	SOW #	ASOCIATED TASK
8.2.3	CPCI DEVELOPMENT	343200	4.3.2	
	or or buvbborimmi	443210		o DDETIMINADY DECICE
		543210		o PRELIMINARY DESIGN o PREPARE PRELIMINARY DESIGN
		343210		SPECIFICATIONS
		443220	4.3.2.2	
		543220	1.5.2.2	o PREPARE BUILD-TO DESIGN
				SPECIFICATIONS
8.2.3	CPCI DEVELOPMENT	443230	4.3.2.3	o DEVELOPMENT
	(CONTINUED)	543230		o DEVELOP CPCs, CODE AND DEBUG
		443240	4.3.2.4	o TEST
		543240		o TEST AND PREPARE REPORTS
		443250	4.3.2.5	o DOCUMENTATION
0 0	Daving and the second	543250		o PREPARE AS-BUILT DOCUMENTATION
8.3	DEVELOPMENT AND TEST LABORATORY	241600	4.16	
		341610	4.16.1	<ul> <li>DEVELOPMENT AND TEST LABORATORY MANAGEMENT</li> </ul>
		541610		o PROVIDE MANAGEMENT, PLANNING AND CONTROL OF FACILITIES
		541620	4.16.2	o PROVIDE SERVICES FOR DEVELOPMENT AND TEST LABORATORY
		541630	4.16.3	
		541640	4.16.4	o OPERATE AND MAINTAIN THE DEVELOPMENT AND TEST LABORATORY
9.0	INTEGRATION, TEST AND TRANSITION			
		241000	4.10	o TEST AND VERIFICATION
		541000	4.10.1	• PROVIDE MANAGEMENT OF SEGMENT TEST
				ACTIVITIES
9.1	TRAINING	241700	4.17	
		541700	4.17.1	<ul> <li>PROVIDE MANAGEMENT OF TRAINING ACTIVITIES</li> </ul>
		_		o PROVIDE SEGMENT TRAINING PLAN
		541720	4.17.2	o PREPARE USER TRAINING MATERIALS
				o TRAIN USERS AND GOVERNMENT
				INSTRUCTORS
		541730	4.17.3	
				o TRAIN SEGMENT AND SYSTEM OPERATORS
		5/17/0	/. 17 /	AND MANAGEMENT PERSONNEL
		341/40	4.17.4	o PREPARE AND DELIVER MAINTENANCE
				TRAINING MATERIALS
9.2	TRANSITION PLANNING			o TRAIN SEGMENT MAINTENANCE PERSONNEL
		541000	4.10.1	o PREPARE TEST PLANS

OBS				
REF	ORGANIZATIONAL ELEMENT	WBS #	SOW #	ASOCIATED TASK
				o PREPARE TEST PROCEDURES
		541020	4.10.2	o PROVIDE NECESSARY SOFTWARE TO SUP-
				PORT INTEGRATED TESTING
9.3	INTEGRATION AND TEST			
		241300		o INSTALLATION, CHECKOUT AND TEST
		541310	4.13.1	o PROVIDE MANAGEMENT OF INSTALLATION,
				CHECKOUT AND TEST
9.3	INTEGRATION AND TEST (CONTINUED)	541320	4.13.2	o PROVIDE FACILITY INTERFACE
	(CONTINUED)			REQUIREMENTS
		541330	4.13.3	o PROVIDE FACILITY PLANNING
		341330	4.13.3	o PREPARE SEGMENT SHIPPING PLAN o PREPARE SEGMENT INSTALLATION PLAN
				o PROVIDE FOR SHIPMENT OF ALL ITEMS
				o ACCOMPLISH SEGMENT INTEGRATION AND
				TRANSITION TO OPERATIONAL STATUS
		541340	4.13.4	o PERFORM FORMAL SITE SEGMENT TEST
				o PROVIDE SITE SEGMENT TEST REPORT
		541350		o PARTICIPATE IN ON-SITE TESTING
9.4	ODEDATIONS C MAINTENANCE	541360	4.13.6	o SUPPORT PROGRAM DEMOS
9.4	OPERATIONS & MAINTENANCE	0/1000	/ -0	
		241800 541810	4.18	PROVIEW CAN AND THE PROPERTY OF THE PROPERTY O
		541810	4.18.1	o PROVIDE OSM MANAGEMENT
		541812	4.18.2	o PROVIDE O&M PROJECT CONTROL
		341012	7.10.2	<ul> <li>PROVIDE SPARING OF SEGMENT EQUIP- MENT AND EXPENDABLES</li> </ul>
		341830	4.18.3	o SOFTWARE MAINTENANCE
		541830		o PROVIDE SYSTEMS ENGINEERING
		541831		o PROVIDE SOFTWARE MANAGEMENT
		541832		o PROVIDE ANALYSIS, ERROR CORRECTION
				AND UPDATE DOCUMENTATION
		541833		o TEST SOFTWARE CHANGES
		541834		o MAINTAIN COMMERCIAL SOFTWARE PRODUCTS
		341840	4.18.4	o HARDWARE MAINTENANCE
		541840		o PROVIDE ANALYSIS, ERROR CORRECTION
				AND UPDATE DOCUMENTATION
		541841	_	o MAINTAIN COMMERCIAL HARDWARE
		341850	4.18.5	o CONFIGURATION CONTROL
		541850		o SUPPORT CONFIGURATION CONTROL FOR
		2/10/0	/ 10 /	OPERATIONAL SOFTWARE AND HARDWARE
		341860	4.18.6	o PROVIDE ADMINISTRATIVE SUPPORT AND
				DOCUMENT CONTROL

## APPENDIX C5

### MASTER SCHEDULE

Basic proposal schedules are unchanged from February 24, 1982 submittal. Figures 1-6, which follow, provide schedules for the options.

Approved For Release 2007/09/05: CIA-RDP84T00037R000300010001-7

	T						
	82	83	64	0 # 0	J F H A H J J A S O H D	#6	J F M A M J J A S O M
	1			800		<u> </u>	
MPIC SYSTEM MILESTONES			INTERPROGRAM I/F CHANGES DEHO & & 4/84 5/84	A 19/84	(OC 7/85		<b>≜</b> FOC 7/87
(BOC) HILESTONES			4/64 5/64	10/04	//62		1761
	▲4/30						
F I) CONTRACT START	A7/1		1				
F 2) SBR (TOTAL SEGMENT)	8/15		1				
F 3) INTERNAL DESIGN REVIEW	9/1	12/1					
F 4) POR (TOTAL SEGMENT)		12/15					
F 5) INTERNAL DESIGN REVIEW	1 7	ZIA			1		
F 6) CDA		A5/1	1				
F 7) INTERNAL DESIGN REVIEW		4/1 40/1					
F 6) PQT	1	8/1 41/	Ą				
F 9) FQT		49/1	<b>▲</b> 121				
F 10) INS A/N INTEGRATION TESTING	1	10/1	12/1				l
S 11) SEGMENT INTEGRATION TESTING	1	12/1	]_A1/4		l		l
S 12) FACTORY ACCEPTANCE TESTING S 13) SHIP		-	TA1/1				ĺ
S 14) INSTALL 278 BASIC A/M		A11/	ا حد				1
S 15) H/W ADPE INSTALL & C/O TEST			(IA A2/1		1		
S 16) S/W INSTALL & C/O TEST	1		2/1 4 4 3/1		İ		
S 17) SITE SEGMENT TEST			A3/1_A5/15		!		
S 18) SEGNENT ACCEPTANCE	Į.		A <sup>5/15</sup>		i		ł
S 191 SITE INTER SEGMENT DEMOS				9/1	ì		
S 20) SITE INTER PROGRAM DEMOS	1		4/1	الرام.	2/13/1		1
\$ 21) BOC TRAINING		12/1	A1/1 A3/1 A5/1				i
\$ 22) INTERFACE OPERATIONAL			<b>△</b> 5/15		l		
5 23) SEGMENT BOC	i		A <sup>5/15</sup>		l		
S 24) SYSTEM BOC	1	1		A10/15	İ		
S 24) BOC O & M	1		i	A10/15	A <sup>7/15</sup>		ŀ
IOC MILESTONES							· · · · · · · · · · · · · · · · · · ·
F 1) POR LOC UPDATE		A*/15/1			l		l
F 2) INTERNAL DESIGN REVIEN	1	A6/1				*	
F 3) CDR	į	A <sup>7/1</sup>	<sup>1//</sup>				
F 4) INTERNAL DESIGN REVIEW			A <sup>2/15</sup>	. 10/1			
F 5) PQT		1	.6/1	A <sup>1071</sup>	1		ļ
F 6) FQT	1	1	A	•	Ï		
F 7) NOME		1	A8/1		2/1		l
F 8) SEGMENT INTEGRATION TESTING			1 · ·		A2/1,3/1		
F 9) FACTORY ACCEPTANCE TESTING	1		1		A3/1		
F to) SHIP	1	I	i		, -	I	I

Figure 1. Option A Master Schedule (Sheet 1 of 2)

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	82	83	84	r		
				85		87
				J F H A H J J A S O H D	J F M A M J J A S O M D	J F M A M J J A S O
IPIC SYSTEM MILESTONES		1	INTERPROGRAM I/F CHANGES BOC DEMO & &	loc		<b>≜</b> Foc
	<u> </u>		4/84 5/84 10/84	7/85		7/87
IOC MILESTONES (CONT.)						
S III INSTALL 478 BASIC A/N		1	A10715			
5 12) H/W ADPE INSTALL & C/O TEST	i	1		3/1 4/1		Ī
5 13) S/N INSTALL & C/O TEST	1	1		3/14//		
S 14) SITE SEGMENT TEST	1			4/1 <u></u> 5/15		ŀ
S 15) SEGMENT ACCEPTANCE				<b>▲</b> 5/15		l
16) SITE INTER SEGMENT DEMOS		1		<u> 45/1 </u> 46/15		
5 17) SITE INTER PROGRAM DEMOS		i		A6/1 A7/15		Ī
18) 10C TRAINING	1			3/15, 4/) 6/1 a//15		
19) SEGMENT LOC	I	]		<b>≜</b> 5/15		
S 20) SYSTEM LOC	1	1		A <sup>7/15</sup>		
5 21 1 TOC O 4 H				A <sup>7/15</sup>	<b>3</b> 7/30	
OC MILESTONES						
11 POR FOC UPDATE				4/1 5/1		
2) INTERNAL DESIGN REVIEW	<u>}</u>			" A_A"   A <sup>6/1</sup>	,	
3) CDR	1			A <sup>7/1</sup> 410/1		
4) INTERNAL DESIGN REVIEW				A		•
S) PQT	[			<b>≜</b> †		
6) FQT	ı	l			A <sup>4/1</sup> A <sup>9/1</sup>	
7) SEGMENT INTEGRATION TESTING	ŀ			F	<u>▲6/1</u> ▲10/1	
8) FACTORY ACCEPTANCE TESTING		i			A <sup>6/1</sup>	
9) SHIP	İ			í		2/1 3/1
			i			<b>△</b> 3/1
10) INSTALL 244 FULL CAPABILITY INS & UPGRADE 396 BASIC (NOTE 1) 11) INSTALL & C/O TEST						A <sup>3/1</sup> A <sup>7/15</sup>
12) SITE SEGMENT TEST						A3/1 A5/1
13) SEGMENT ACCEPTANCE						5/16/15
14) SITE INTER SEGMENT DEMOS						<b>▲</b> 6/15
15) SITE INTER PROGRAM DEMOS		1				5/157/1
161 FOC TRAINING			ļ	Į.		6/15 7/15
17) SEGMENT FOC	i		Ĭ		!	3/15 4/15 5/15 7/15
18) SYSTEM FOC		1				A <sup>6/15</sup>
191 FOC 0 4 H			ļ			<b>▲</b> 7/15
171 FUL U & M			1		, 10/1	THROUGH 7/88

Figure 1. Option A Master Schedule (Sheet 2 of 2)

	62	83	84		85	T	
	ANJJASOND	J F M A M J J A S O N	DJFHAHJJAS	5 0 N D	J F M A M J J A S O M	D J F M A H J J A S O H D	
PIC SYSTEM MILESTONES			DEHO A A	<b>A</b>	<b>▲</b> toc	37 4 4 4 3 3 4 5 6 4 6	J F M A H J J A S O
OC) HILESTONES	<del></del>		4/84 5/84	10/84	7/85	1	7/87
I) CONTRACT START	A4730						
2) SBR (TOTAL SEGMENT)	A7/1		1				
3) INTERNAL DESIGN REVIEW	8/15		i		i	1	l
4) PDR (TOTAL SEGMENT)		2/1			!	1	
	1	12/15				1	
5) INTERNAL DESIGN REVIEW	1 1	9	1			1	
6) CDR	Ï		1			1	
7) INTERNAL DESIGN REVIEW	i	A <sup>5/1</sup>				1	
8) PQT			1				
9) FQT		<u> </u>	1			1	
10) INS A/N INTEGRATION TESTING		A9/1	-  <b>-</b>  ''				
II) SEGMENT INTEGRATION TESTING		<u>_10/1</u>	<b>4</b> (2/1		1		
12) FACTORY ACCEPTANCE TESTING		12/1	<b>Д</b> ии				
I3) SHIP			A <sup>1/1</sup>	1			
4) INSTALL 278 BASIC A/N		<u>_11</u>	<u>/1</u> 3≥1				
5) H/W ADPE INSTALL & C/O TEST	i		1114_A2/1			ł i	
6) S/M INSTALL & C/O TEST			2/1 4 3/1	- 1		1	
17) SITE SEGMENT TEST			A3/1 A5/15			ł I	
18) SEGNENT ACCEPTANCE			45/15			1	
19) SITE INTER SEGMENT DEMOS			د. آ <i>ن</i> اد ا	2/1		1	
20) SITE INTER PROGRAM DEMOS			4/1	A10/1	2/13/1		
RI) BOC TRAINING		12/1	AI/I A3/I A5/I	- <b>^</b>		j	
2) INTERFACE OPERATIONAL	l		\$/15	ı			
3) SEGMENT BOC			\$/15	- 1		1	
N) SYSTEM BOC			1 -	A10/15		i i	
4) BOC O & M			1	10/15	*45	1	
	1		ŀ	*****	^7/15	1	
MILESTONES		· · · · · · · · · · · · · · · · · · ·	<del> </del>				
I) POR IOC UPDATE		4/15/1	<del></del>				
2) INTERNAL DESIGN REVIEW		AS/I	I	- 1			
S) CDR	1	A <sup>7/1</sup>	1/1				
I) ENTERNAL DESIGN REVIEW	ļ	<u> </u>	4	- 1		1	
I) TRIENIAL DESIGN REVIEW			A <sup>2/15</sup>			ļ	
5) PQT			4/1	/ <sub>10/1</sub>			
			A6/1	ا′2′ا			
7) (NONE)			1				
B) SEGMENT INTEGRATION TESTING	i		A8/1		^ <sup>2/1</sup>	1	
9) FACTORY ACCEPTANCE TESTING			1		<u> 42/1</u> 3/1		
D) SHIP	i			- 1	<b>∆</b> 321		

Figure 2. Option B Master Schedule (Sheet 1 of 2)

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	82	63	84	85		
	ANJJASOND	J F M A M J J A S O M D	J F M A M J J A S D H D	J F H A H J J A S O H O	1 F M A M . I . A S O M D	07
MPIC SYSTEM MILESTONES			INTERPROGRAM I/F CHANGES BOC DEMO & & 10/84	A10C		<b>A</b> <sup>Foc</sup>
OC MILESTONES (CONT.)			10.00	1/65		7/87
11) (NONE)				<del>                                     </del>		
12) (NONE)					i	1
13) S/N INSTALL & C/O TEST				3/1, 4//1		i
IN) SITE SEGMENT TEST				4/15/15		1
15) SEGMENT ACCEPTANCE				3/15		ŀ
161 SLITE INTER SEGMENT DEMOS				\$\$\rightarrow\$ 40/15	l	Į.
17) SITE INTER PROGRAM DEMOS				A6/1 A7/15		
18) IOC TRAINING				3/15, 4/1 6/1 7/15	1	1
19) SEGMENT TOC		ľ		A5/15	1	1
20) SYSTEM LOC					1	1
51) IOC O 4 M				A7/15	49/30	
OC MILESTONES						
A MILESTONES						
I) PDR FOC UPDATE				4/1 <u>6_4</u> 5/1		
8) INTERNAL DESIGN REVIEW				A6/1	1	1
3) CDR				A7/1 A10/1		ĺ
4) INTERNAL DESIGN REVIEW					<b>e</b> /1	1
5) PQT				<u> </u>	A4/1 A9/1	
6) FQT					10/1	· ·
7) SEGMENT INTEGRATION TESTING		1			40/1	,2/1
8) FACTORY ACCEPTANCE TESTING				ł		2/1 3/1
9) SHIP				ĺ		A3/1
10) INSTALL B2 BASIC, 140 ENHANCED. 8 500 FULL CAPABILITY INS 11) INSTALL & C/O TEST						A2/1 A7/15
12) SITE SEGMENT TEST	1					5/1 6/15
13) SEGMENT ACCEPTANCE	i	i		1		6/15
14) SITE INTER SEGMENT DENOS	l	I				5/15 7/1
15) SITE INTER PROGRAM DEMOS			*			6/15 7/15
16) FOC TRAINING	i	. 1				3/15 4/15 5/15 7/15
17) SEGMENT FOC				l		6/15
IB) SYSTEM FOC						A <sup>77</sup> /15
19) FOC D 4 M	ł	ł			<b>▲</b> 10∕1	THROUGH 7/88
	i	1				

Figure 2. Option B Master Schedule (Sheet 2 of 2)

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	82	63		N 84			85	86	87
	AHJJASOH	DJFHAHJJ	A S O N D	JFHAHJJA	5 0 N D	JFHAH	JJASOND	J F H A H J J A S D N D	1.5 8 4 8 1 1 4 5 2
MPIC SYSTEM MILESTONES			•	INTERPROGRAM 1/F CHANGES DENO & &	BOC A		A <sup>10C</sup>		<b>≜</b> Foc
(BOC) MILESTONES	<u> </u>								7/67
F I) CONTRACT START	A4/30								
F 2) SOR (TOTAL SEGMENT)	A7/1	1				l			İ
F 3) INTERNAL DESIGN REVIEW	A8/15	l l				İ			
F 4) POR (TOTAL SEGMENT)	9/1	⊾ĺ≥ι							i
F 5) INTERNAL DESIGN REVIEW	1	A 12/15							l .
F 6) CDR		1/14							
F 7) INTERNAL DESIGN REVIEW	· ·	A5/1							
F 8) PQT		4/1	A10/1						
F 9) FQT			8/1 411/						
F 10) INS A/N INTEGRATION TESTING		1	A9/1	▲IZI					
F 11) SEGMENT INTEGRATION TESTING	1		10/1 12/1						
F 12) FACTORY ACCEPTANCE TESTING			12/1	A1/1					
F 13) SHIP		i	_	ĀIZI			1		
S 14) INSTALL 278 BASIC A/M	i	1	<b>▲</b> 1171	 ⊿3/1					
S 15) H/M ADPE ENSTALL & C/O TEST	i	1	- 1	1 42/1					
5 16) S/N INSTALL & C/O TEST	l	1		וע או					l
S 17) SITE SEGMENT TEST				A3/1 A5/15			i		
5 18) SEGMENT ACCEPTANCE	ľ	1		A5/15					
S 19) SITE INTER SEGMENT DEMOS					9/1				
S 20) SITE INTER PROGRAM DEMOS	Í	1		A4/1 .	A10/15	2/1 1/1	1	•	
S 21) BOC TRAINING	· ·	[	12/1	AIZI AZI ASZI	_				
5 22) INTERFACE OPERATIONAL	ļ	1		A5/15					
S 23) SEGMENT BOC	1	ŀ		A5/15			1		
S 2N) SYSTEM BOC				_	A10/15				
5 25) BOC O 4 H		1			10/15		,7/15		
OC MILESTONES		<u> </u>					<b></b>		
or arrange									
F 1) POR IOC UPDATE			1/1]	A <sup>2/1</sup>	- 1				
2) ENTERNAL DESIGN REVIEW				A2/15	· · ·				
3) CDR		1	i	A3/1 A4/15			1		
4) INTERNAL DESIGN REVIEW			ı	A <sup>5/1</sup>	- 1				
5) PQT				40/1	5_10/15				
6) FQT			ı		10/1	1/1	i		
7) NONE			ļ				- [	1	
8) SEGMENT INTEGRATION TESTING		1	1		12/15	A2/1			
9) FACTORY ACCEPTANCE TESTING		1				/IA A3/I			
10) SHIP			I		- 1	A3/1	i i		
		1				_			

Figure 3. Option C Master Schedule (Sheet 1 of 2)

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	62	63	<b>6</b> 4	85		T	
	ANJJASOND	J F H A H J J A S O H D	J F M A M J J A S D M D	J F M A M J J A S D M D	J F H A H J J A S O H D	J F H A H J J A S O	
PIC SYSTEM MILESTONES			INTERPROGRAM I/F CHANGES BOC A 4/84 5/84 10/84	A10C 7/85		<b>≜</b> F∝	
IOC) HILESTONES (CONT.)						7/87	
S II) (NONE)						,	
S 12) (NOME)							
S 13) S/N INSTALL & C/O TEST				3/1 4//		l	
S IN) SITE SEGMENT TEST				4/1 <u>4</u> 5/15			
S 15) SEGMENT ACCEPTANCE				A5/15			
S 16) SITE INTER SEGMENT DENOS				45/1 46/15			
S 17) SITE INTER PROGRAM DEMOS				6/1 7/15			
S 18) IOC TRAINING				3/15_4/1 6/1_7/15			
S 19) SEGMENT LOC				\$5/15			
S 20) SYSTEM COC							
S 21) LOC O 6 M				7/15	49/30		
FOC MILESTONES							
F 1) POR FOC UPDATE				4/ <u>1, 4</u> 5/1			
F 2) INTERNAL DESIGN REVIEW				<b>≜</b> 6∕1			
F 3) COR				A7/1 A10/1			
F 4) INTERNAL DESIGN REVIEN					2∕1		
F 5) PQT				ļ	A <sup>4/1</sup> A <sup>9/1</sup>		
F 6) FQT					A6/I A10/I		
7) SEGMENT INTEGRATION TESTING					A8/1	^2/I	
6) FACTORY ACCEPTANCE TESTING						2/1 3/1	
F 9) SH(P			1			vı	
S 10) INSTALL B2 BASIC, 140 EMHANCED.				l l		A <sup>3/1</sup> A <sup>7/15</sup>	
S II) INSTALL 4 C/O TEST				·		A <sup>3/1</sup> A <sup>5/1</sup>	
S 12) SITE SEGMENT TEST				l		5/I6/15	
S 13) SEGMENT ACCEPTANCE		'				<b>▲</b> 6/15	
14) SITE INTER SEGMENT DENOS						5/15 7/1	
IS) SITE INTER PROGRAM DEMOS						6/15A_A <sup>7</sup> /15	
16) FOC TRAINING						3/15 4/15 5/15 7/15	
17) SEGMENT FOC		l .				A <sup>6/15</sup>	
18) SYSTEM FOC					104	A <sup>7/15</sup>	
6 19) FOC 0 4 H					A <sup>10/1</sup>	THROUGH 7/88	
		l					

Figure 3. Option C Master Schedule (Sheet 2 of 2)

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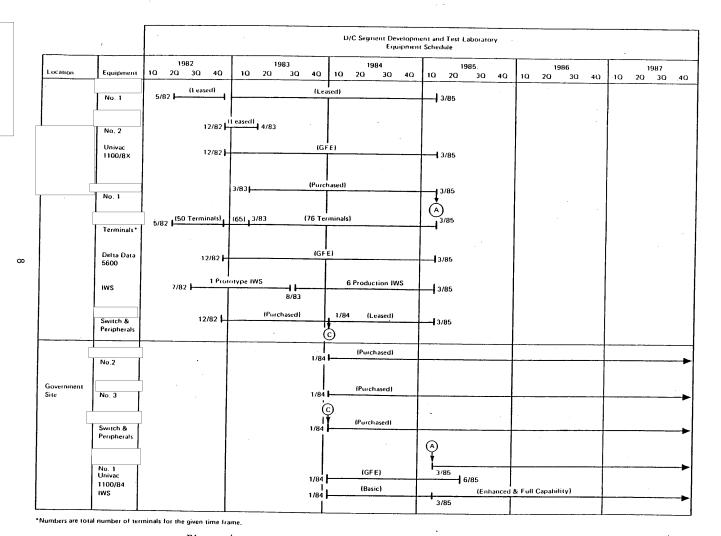


Figure 4. Equipment Phasing at Contractor's Facility and Government Facility Option A

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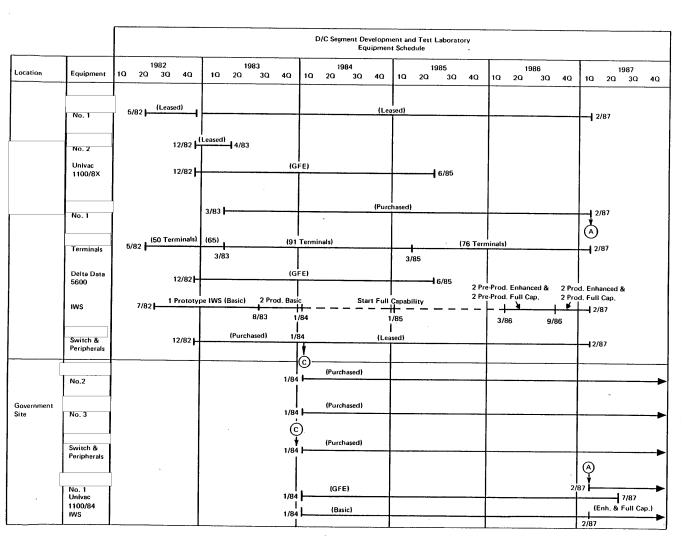
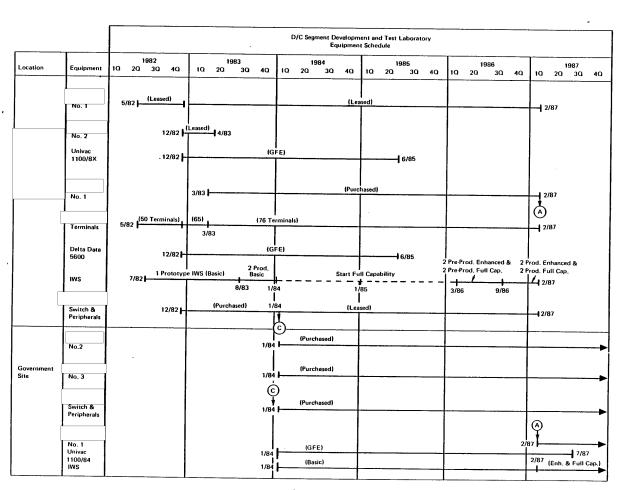


Figure 5. Equipment Phasing at Contractor's and Government Facilities Option B

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Figure 6. Equipment Phasing at Contractor's and Government Facilities  ${\tt Option}\ {\tt C}$ 

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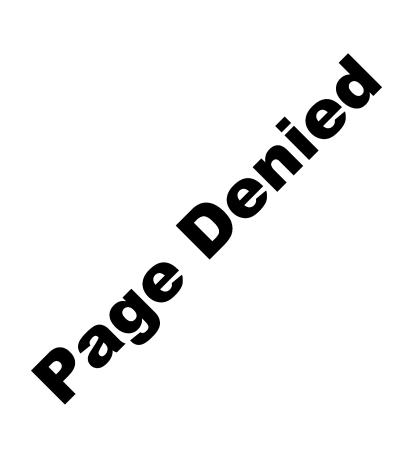
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#### APPENDIX C11

#### ADPE PROCUREMENT OPTIONS

#### 1.0 Introduction

This section presents a comparative analysis of three ADPE procurement options, namely:

o Baseline Procurement Option (BPO)

Previously(February proposal) referred to as the "Recommended Procurement Option", this option involves the outright purchase of all ADPE destined for delivery to the Government's site. While this procurement option has the lowest overall cost, it requires significantly more dollar outlay in the first three program years.

Alternate Payment Plan (APP)

Where, the hardware items being purchased are the same as for the BPO above, but the schedule for payment by the Government is agreed to under the terms, conditions and provisions of the contract.

o Lease Procurement Option (LPO)

Where, all ADPE procurements are leased at rates equivalent to those offered under the GSA ADP Contract. While this procurement option has the highest overall cost, it requires significantly less dollar outlay in the first three program years.

1.2 Criteria For The Optimal Procurement Approach

Efforts toward development of alternative approaches to ADPE procurement have been guided by three criteria:

- 1. That the approach yield the least overall program cost.
- 2. That the approach present an attractive affordability profile especially over the early years of the program.
- 3. That the approach taken to attain 1 and 2 in no way increase risk attendant to the performance of the program.

### 2.0 ADPE Cost By Procurement Option

Figure 1-1 summarizes the procurement options by categories of Purchase/Lease, Hardware Maintenance, and Software (License and Support) across hardware groups B, C, D, E, G, I, J and K. Price adjustments, as applicable, are shown for the following hardware group combinations:

Hardware	<u>Applicable</u>	to Procurement	Option	
Group	Baseline	APP	Lease	
B&C	Yes	Yes	No	
D&E&G	Yes	Yes	No	
I&J	Yes	Yes	No	
K	Yes	Yes	No	

Interest accruals engendered by the APP options are shown as "Cost Deltas".

The option total for each of the procurement options in Figure 1-1 shows the Baseline option to be the overall cost followed by the APP option (14% more costly). The Lease Option is 40% and 30% more costly than the Baseline and APP options, respectively. On the basis of the above stated criteria to develop and present the most cost effective procurement approach, the Lease option is disqualified as a viable alternative. Baseline and APP options thus remain as the procurement options of choice and are further compared below.

Figures 1-2 and 1-3 present cost by hardware group across fiscal years of the program for the Baseline and APP options, respectively. In terms of the above stated criteria to "present an attractive affordability profile especially over the early years of the program", attention is directed to the TOTAL and PERCENT OF TOTAL columns. Clearly, the APP option presents the most attractive affordability profile over the early years of the program.

1											
Lease pricing	is	included	here	as	a :	ROM	comparison	to	Baseline	and	APP
Options and do											

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ALTERNATE PAYMENT PLAN

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HARDWARE SOFTWARE ADJUSTED

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LEASE

EXTENDED PRICING
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HARDWARE SOFTWARE

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